

Frank W. Wogoman, **204/403**, **415**, **418**; **435/817** [IMAGE AVAILABLE]

61. 4,919,141, Apr. 24, 1990, Implantable electrochemical sensor; Horst D. Zier, et al., 128/635; **204/403**, **415**, **422**, **435** [IMAGE AVAILABLE]

62. 4,909,908, Mar. 20, 1990, Electrochemical cncentration detector method; Pepi Ross, et al., 205/778; **204/403**, **415**, **435/180**, **817** [IMAGE AVAILABLE]

63. 4,805,624, Feb. 21, 1989, Low-potential electrochemical redox sensors; Shang J. Yao, et al., 128/635; **204/406** [IMAGE AVAILABLE]

64. 4,795,542, Jan. 3, 1989, Electrochemical concentration detector device; Pepi Ross, et al., **204/403**, **412**, **415**, **435**; **435/180**, **817** [IMAGE AVAILABLE]

65. 4,711,245, Dec. 8, 1987, Sensor for components of a liquid mixture; Irving J. Higgins, et al., 128/635; **204/403**, **415**, **435/25**, **817** [IMAGE AVAILABLE]

66. 4,614,714, Sep. 30, 1986, Use of novel L-glutamic acid oxidase; Hitoshi Kusakabe, et al., **435/25**, **191**, **287.9**, **810**, **817** [IMAGE AVAILABLE]

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=> s 204/clas or 435/clas

35718 204/CLAS

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=> s filler or silica

68147 FILLER

145598 SILICA

L2 195480 FILLER OR SILICA

=> s 11 and 12

L3 7546 L1 AND L2

=> s biosensor or glucose sensor

394 BIOSENSOR

39505 GLUCOSE

179137 SENSOR

247 GLUCOSE SENSOR

(GLUCOSE (W) SENSOR)

L4 585 BIOSENSOR OR GLUCOSE SENSOR

=> s 13 and 14

L5 66 L3 AND L4

=> d 15 1-66

1. 5,589,326, Dec. 31, 1996, Osmium-containing redox mediator; Zhi D. Deng, et al., **435/4**, **14**, **25**, **817** [IMAGE AVAILABLE]

2. 5,582,698, Dec. 10, 1996, Sensor package; James E. Flaherty, et al., **204/409**, **403**, **415**, **418**; 422/82.01, 82.02, 82.03 [IMAGE AVAILABLE]

3. 5,580,523, Dec. 3, 1996, Integrated chemical synthesizers; Allen J. Bard, 422/50; 210/198.2; 422/70, 81, 82.01, 82.05, 99, 110, 116, 119, 129, 134; **435/287.1**, **288.6**, **288.7** [IMAGE AVAILABLE]

4. 5,576,191, Nov. 19, 1996, Cytokine that binds ST2; Margit Gayle, et al., **435/69.1**; 424/192.1, 193.1; **435/69.7**; **320.1**; 530/350, 839; 536/23.5 [IMAGE AVAILABLE]

5. 5,573,647, Nov. 12, 1996, Electrical contact; Thomas C. Maley, et al., **204/406**; 29/759, 760, 825, 874; **204/400**; **416**; 324/76.11, 450 [IMAGE AVAILABLE]

6. 5,567,301, Oct. 22, 1996, Antibody covalently bound film immunobiosensor; Joseph R. Stetter, et al., 205/777.5; **204/403**, **415**; **435/4**, **7.1**, **7.93**; **287.2**; **817** [IMAGE AVAILABLE]

7. 5,556,528, Sep. 17, 1996, Structures with field responsive permeation control; Paul W. Bohn, et al., **204/600**, **450**, **518**, **627** [IMAGE AVAILABLE]

8. 5,554,339, Sep. 10, 1996, Process for the manufacture of wholly microfabricated biosensors; Stephen N. Cozzette, et al., 422/50, 63, 68.1, 69, 78, 79, 82.05; **435/6**; 436/501; 935/88 [IMAGE AVAILABLE]

9. 5,545,517, Aug. 13, 1996, Selective metal ion detection using a photoluminescent indicator binding to a macromolecule-metal ion complex; Richard B. Thompson, et al., **435/4**; 356/73.1, 301; 422/55, 82.07, 82.08, 82.11; **435/18**, **808**; 436/73, 164, 172, 805 [IMAGE AVAILABLE]

10. 5,540,828, Jul. 30, 1996, Method for making electrochemical sensors and biosensors having a polymer modified surface; Alexander Yacynych, **204/418**, **403**, **415**; 205/198, 317; 422/82.03; **435/287.2**; **287.9**; **817** [IMAGE AVAILABLE]

11. 5,529,676, Jun. 25, 1996, Sample chamber; Thomas C. Maley, et al., **204/409**, **400**, **416** [IMAGE AVAILABLE]

12. 5,527,711, Jun. 18, 1996, Method and reagents for binding chemical analytes to a substrate surface, and related analytical devices and diagnostic techniques; May Tom-Moy, et al., 436/518; **204/403**; 422/82.01, 82.11; **435/7.5**; **962**; 436/151, 528, 543, 807, 822; 548/304.1 [IMAGE AVAILABLE]

13. 5,525,511, Jun. 11, 1996, Electrochemical **biosensor** stability; Eric D'Costa, **435/287.9**; **204/403**; **435/287.7**; **817** [IMAGE AVAILABLE]

14. 5,520,786, May 28, 1996, Mediators suitable for the electrochemical regeneration of NADH, NADPH or analogs thereof; Michael L. Bloczynski, et al., **204/403**; **435/817** [IMAGE AVAILABLE]

15. 5,512,492, Apr. 30, 1996, Waveguide immunosensor with coating chemistry providing enhanced sensitivity; James N. Herron, et al., 436/518; 356/244, 246, 317, 318; 385/12, 129, 130; 422/57, 58, 82.05, 82.08, 82.11; 427/162; **435/7.5**; **287.2**; **287.9**; **808**; 436/164, 527, 531, 805 [IMAGE AVAILABLE]

16. 5,496,700, Mar. 5, 1996, Optical immunoassay for microbial analytes using non-specific dyes; Frances S. Ligler, et al., **435/7.1**; **4**; **5**; **6**; **7.2**; **7.21**; **7.3**; **7.32**; 436/501, 518 [IMAGE AVAILABLE]

17. 5,494,798, Feb. 27, 1996, Fiber optic evanscent wave sensor for immunoassay; David W. Gerdt, et al., **435/6**; 356/448; 385/13, 30; 422/82.06, 82.11; **435/7.1**; **7.4**; **7.8**; **7.9**; 436/501, 518, 527; 546 [IMAGE AVAILABLE]

18. 5,494,562, Feb. 27, 1996, Electrochemical sensors; Thomas C. Maley, et al., **204/403**; 128/635; **204/412**; **415**; **418**; **435/287.1**; **287.9**; **817** [IMAGE AVAILABLE]

19. 5,492,840, Feb. 20, 1996, Surface plasmon resonance sensor unit and its use in **biosensor** systems; Magnus Malmqvist, et al., 436/518; 356/317, 318, 445; 385/12; 422/82.05, 82.11; **435/808**; 436/164, 524, 525, 527, 528, 529, 530, 531, 805, 819 [IMAGE AVAILABLE]

20. 5,466,575, Nov. 14, 1995, Process for the manufacture of wholly microfabricated biosensors; Stephen N. Cozzette, et al., **435/6**; **204/403**; **411**; **412**; **414**; **415**; **416**; **417**; **418**; **419**; **430**; **431**; **432**; 422/82.01; 427/2.13, 96; **435/177**; **817**; 436/149, 806 [IMAGE AVAILABLE]

21. 5,462,645, Oct. 31, 1995, Dialysis electrode device; John W. Albery, et al., 205/778; 128/642; **204/403**; **409**; **412**; **415**; 205/793, 794.5 [IMAGE AVAILABLE]

22. 5,449,064, Sep. 12, 1995, On-line interface and valve for capillary electrophoresis system; Barry L. Hogan, et al., **204/603**; **193**; **604** [IMAGE AVAILABLE]

23. 5,443,955, Aug. 22, 1995, Receptor membranes and ionophore gating; Bruce A. Cornell, et al., **435/7.21**; **317.1**; 436/501, 512, 518 [IMAGE AVAILABLE]

24. 5,436,170, Jul. 25, 1995, Receptor membranes; Bruce A. Cornell, et al.; 436/527; **435/7.2**; 436/518, 532 [IMAGE AVAILABLE]

25. 5,436,161, Jul. 25, 1995, Matrix coating for sensing surfaces capable of selective biomolecular interactions, to be used in **biosensor** systems; Jan Bergstrom, et al., 422/57, 58, 82.05, 82.11; **435/808** [IMAGE AVAILABLE]

26. 5,427,915, Jun. 27, 1995, Multi-optical detection system; Hans O. Ribi, et al., **435/7.92**; 422/82.05, 82.09, 82.11; **435/7.93**; **7.94**; **7.95**; **970**; 436/527, 528, 532 [IMAGE AVAILABLE]

27. 5,427,912, Jun. 27, 1995, Electrochemical enzymatic complementation immunoassay; Mary E. Brown, et al., **435/7.6**; **204/403**; **435/18**; **817**; **968** [IMAGE AVAILABLE]

28. 5,424,187, Jun. 13, 1995, Method of screening for arterial chlamydial granuloma; Allan Shor, et al., **435/6**, **4**, **7.1** [IMAGE AVAILABLE]

29. 5,422,246, Jun. 6, 1995, Electrode having a polymer coating with a redox enzyme bound thereto, the polymer coating being formed on the walls of pores extending through a porous membrane; Cornelis G. J. Koopal, et al., **435/14**; **204/403**; 205/164, 778; **435/25**, **287.9**, **817** [IMAGE AVAILABLE]

30. 5,413,915, May 9, 1995, Method and sensor for detecting toxic chemical exposure effects and metabolic activation of carcinogenic chemical agents; George D. Case, et al., **435/25**; 422/56; **435/287.9**, **288.7**, **317.1** [IMAGE AVAILABLE]

31. 5,407,806, Apr. 18, 1995, Method for quantitatively measuring sugar-alcohol, column and kit therefor; Masahiko Yabuuchi, et al., **435/25**; 210/656, 661; **435/4**, **28**, **105**, **803**, **810**; 436/174, 177, 178, 815 [IMAGE AVAILABLE]

32. 5,403,462, Apr. 4, 1995, Electrochemical electrodes and methods for the preparation thereof; Ovadia Lev, et al., **204/403**; 156/60, 308.2; **204/290R**, **291**, **414**, **416**; **435/817** [IMAGE AVAILABLE]

33. 5,401,378, Mar. 28, 1995, Ionic reservoir at electrode surface; Lionel G. King, et al., **204/418**; **403**; 205/778; 422/82.03; **435/817** [IMAGE AVAILABLE]

34. 5,393,615, Feb. 28, 1995, Mediators suitable for the electrochemical regeneration of NADH, NADPH or analogs thereof; Paul F. Corey, et al., 429/43; **204/290R**; **403**; **418**; 429/50 [IMAGE AVAILABLE]

35. 5,387,515, Feb. 7, 1995, Process for providing a 6-ketone from morphine or an ether derivative thereof using morphine dehydrogenase; Neil C. Bruce, et al., **435/148**; **119** [IMAGE AVAILABLE]

36. 5,376,252, Dec. 27, 1994, Microfluidic structure and process for its manufacture; Bjorn Ekstrom, et al., **204/603**; 73/23.39, 61.53; **204/604**; 210/198.2, 656; 422/947 [IMAGE AVAILABLE]

37. 5,298,414, Mar. 29, 1994, Detection of morphine using morphine dehydrogenase; Neil C. Bruce, et al., **435/26**; **122**; **189**; **190** [IMAGE AVAILABLE]

38. 5,296,374, Mar. 22, 1994, Apparatus for assessing a particular property in a medium; Brian Culshaw, et al., **435/287.9**; 374/31, 117;

422/82.02, 82.12; **435/288.7** [IMAGE AVAILABLE]

39. 5,286,364, Feb. 15, 1994, Surface-modified electrochemical **biosensor**; Alexander M. Yacynych, et al., **204/418**, **403**; 205/198, 317; **435/817** [IMAGE AVAILABLE]

40. 5,270,193, Dec. 14, 1993, Immobilization of biomolecules on perfluorocarbon surfaces; John W. D. Eveleigh, **435/181**, **180**; 436/531, 532; 530/815, 816 [IMAGE AVAILABLE]

41. 5,268,305, Dec. 7, 1993, Multi-optical detection system; Hans O. Ribi, et al., 436/501; 422/68.1, 82.05, 82.08, 82.09; **435/287.2**; **288.7**; 436/164, 172, 527, 528, 531, 805 [IMAGE AVAILABLE]

42. 5,252,294, Oct. 12, 1993, Micromechanical structure; Walter Kroy, et al., 422/102, 63, 68.1, 82.11, 943; **435/288.4** [IMAGE AVAILABLE]

43. 5,242,828, Sep. 7, 1993, Sensing surfaces capable of selective biomolecular interactions, to be used in **biosensor** systems; Jan Bergstrom, et al., **435/287.1**; 422/57, 58, 82.05, 82.11; **435/287.7**; **287.9**; **808** [IMAGE AVAILABLE]

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45. 5,225,374, Jul. 6, 1993, Method of fabricating a receptor-based sensor; Thomas L. Fare, et al., 437/225; **204/416**; **418**; **435/176**; 437/228 [IMAGE AVAILABLE]

46. 5,212,050, May 18, 1993, Method of forming a permselective layer; Randall M. Mier, et al., 430/320; 422/930; 430/311, 313, 325, 326, 328, 330; **435/287.9** [IMAGE AVAILABLE]

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48. 5,200,051, Apr. 6, 1993, Wholly microfabricated biosensors and process for the manufacture and use thereof; Stephen N. Cozzette, et al., **204/403**; **415**; 205/778, 782.5; 422/930; **435/287.9** [IMAGE AVAILABLE]

49. 5,156,972, Oct. 20, 1992, Analyte specific chemical sensor with a ligand and an analogue bound on the sensing surface; David Issachar,

422/68.1; **204/403**; 422/82.01, 82.06, 82.11; **435/808**, **817**
[IMAGE AVAILABLE]

50. 5,156,810, Oct. 20, 1992, Biosensors employing electrical, optical and mechanical signals; Hans O. Ribi, 422/82.01; **204/403**; 422/82.02, 82.06; **435/287.2**, **287.9**; 436/501, 527, 531, 806 [IMAGE AVAILABLE]

51. 5,154,808, Oct. 13, 1992, Functional organic thin film and process for producing the same; Tsutomu Miyasaka, et al., **204/157.15**, **157.6**, **157.64**, **157.81**; 427/553, 554; **435/177**, **180**
[IMAGE AVAILABLE]

52. 5,111,221, May 5, 1992, Receptor-based sensor; Thomas L. Fare, et al., 257/414; **204/416**, **418**; 257/577, 587; **435/287.9**; 437/228 [IMAGE AVAILABLE]

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54. 5,082,540, Jan. 21, 1992, Fluoride ion sensitive materials; Jeffrey D. Newman, et al., 264/67; **204/416**; 419/31, 48 [IMAGE AVAILABLE]

55. 5,079,155, Jan. 7, 1992, Fluorocarbon polymer support for chromatographic separations, diagnostic assays and enzyme immobilization; Geoffrey B. Cox, et al., **435/181**, **7.92**, **176**, **180**, **803**; 436/524, 531, 532, 824; 530/412, 413, 416, 417, 811, 815, 816 [IMAGE AVAILABLE]

56. 5,077,210, Dec. 31, 1991, Immobilization of active agents on substrates with a silane and heterobifunctional crosslinking agent; Frances S. Eigler, et al., **435/176**, **181**; 436/524, 527, 532; 530/811, 816 [IMAGE AVAILABLE]

57. 5,063,081, Nov. 5, 1991, Method of manufacturing a plurality of uniform microfabricated sensing devices having an immobilized ligand receptor; Stephen N. Cozzette, et al., **435/4**; **204/403**, **415**, **418**; 422/57, 930; 427/2.13, 407.1, 414; **435/7.1** [IMAGE AVAILABLE]

58. 5,030,310, Jul. 9, 1991, Electrode for electrochemical sensors; Frank W. Wogoman, 156/252; **204/403**, **412**, **415**, **416**, **418**; **435/817** [IMAGE AVAILABLE]

59. 5,002,652, Mar. 26, 1991, Plasma polymerized polysiloxane membrane; Charles L. Nelson, et al., **204/412**, **165** [IMAGE AVAILABLE]

60. 4,938,860, Jul. 3, 1990, Electrode for electrochemical sensors;